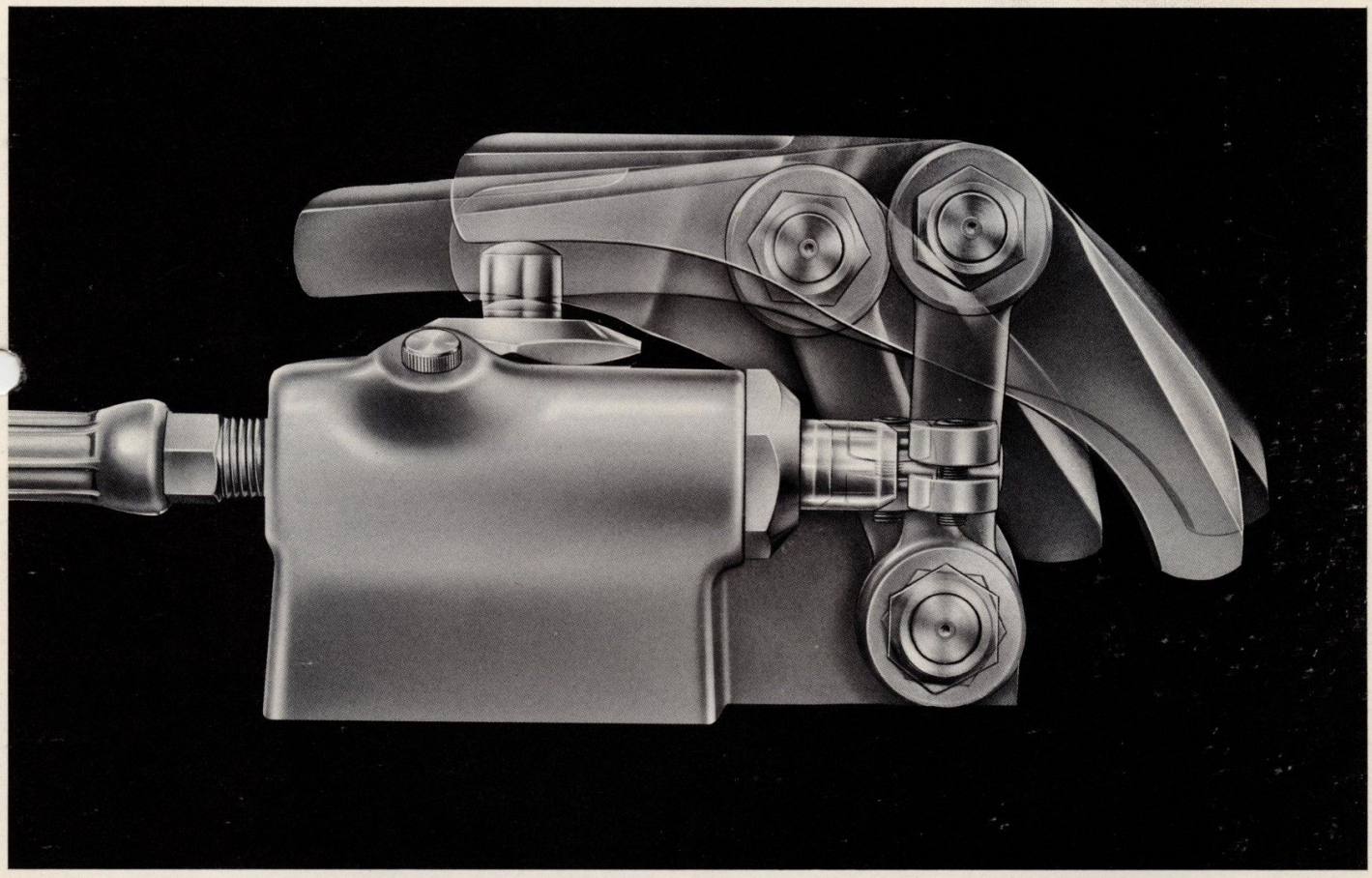
WILTON AIR/HYDRAULIC

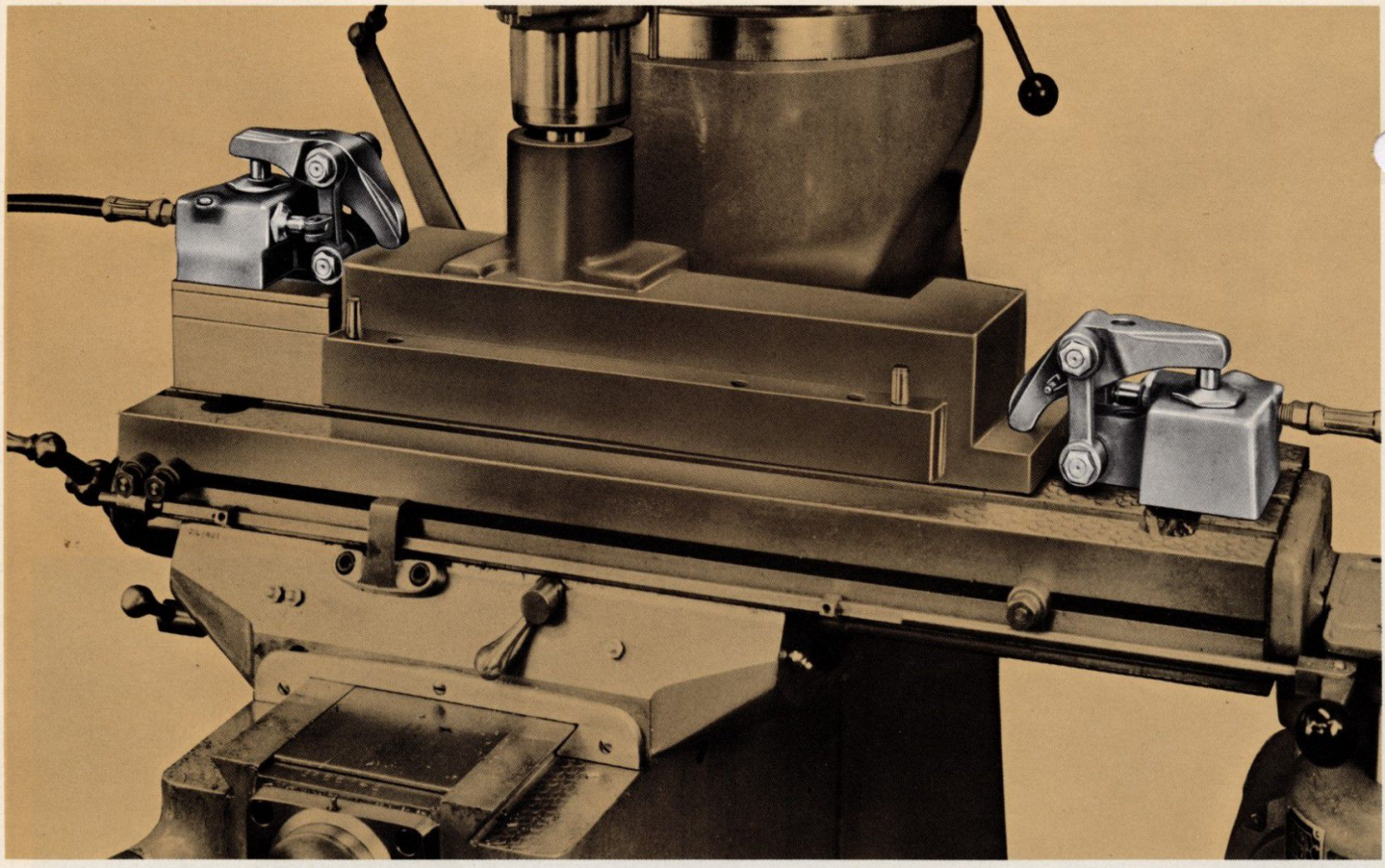
POWRSLIDE®



a new kind of hydraulic clamping action...

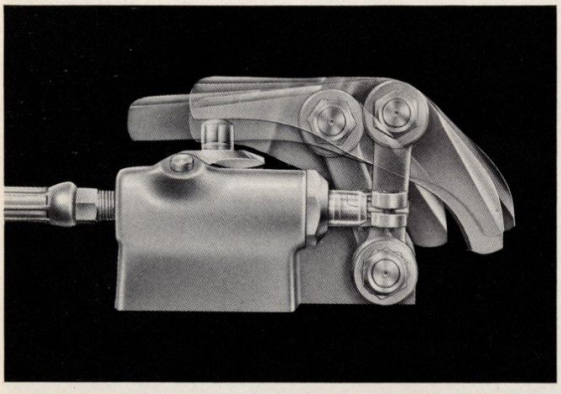
horizontal travel and vertical force to completely automate every fixture!

U.S. Patent Pending



PowRslide clamps any size workpiece, even irregular and hard-to-fixture shapes. When the clamping location on the workpiece exceeds 1⅛" in height, one or more riser blocks can be used to raise PowRslide to bridge the variance. This means workpieces can be clamped on two different planes with complete automatic operation of PowRslide.

PowRslide



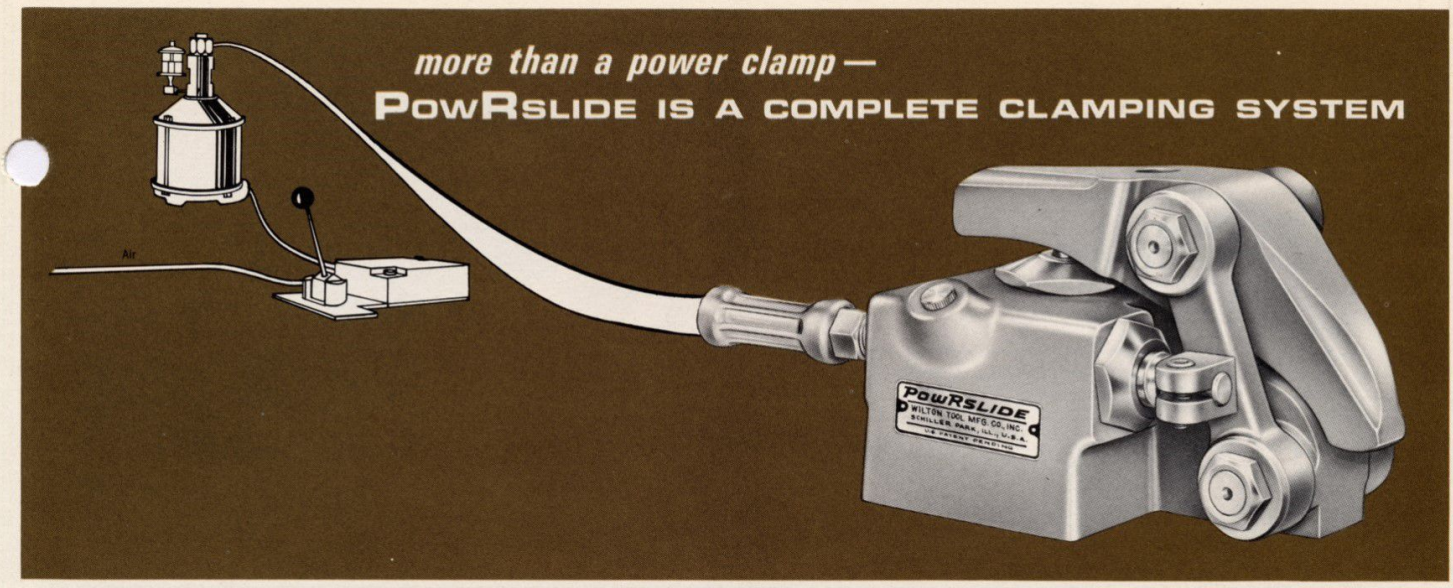
exclusive 3-stage action...

fixture automation to match the most advanced machine

Out . . . down . . . clamp . . . and retract. Here's fast sequence, *automated* bridge clamping that does everything but load and unload the workpiece. Wilton PowRslide mounts on the machine table, or it can be built into the fixture. A single bolt locks it in position — a flick of an air control lever puts it in action! More than just a power clamp, it's a *complete automated clamping system* that simplifies jig and fixture building, lets you clamp workpieces of any size or configuration easier, in less time and at lower cost.

automatic operation

PowRslide is air/hydraulic operated with your own shop air and a dependable Wilton Air/Hydraulic Booster. It has a 3-stage action that provides (1) horizontal movement of the rocker arm toward the workpiece, (2) vertical travel to apply full hydraulic clamping to the workpiece, and (3) retract to relaxed position when machining is completed. *Automatically!* As a result, PowRslide accelerates loading and unloading — and because it clears the workpiece on every cycle, it can be synchronized with the cycle of the machine to automate one or more operations. It permits one operator to handle more workpieces per machine, more machines at one time. And with its single bolt mounting, it's easy to adapt to different machines or fixtures as required.



more than a power clamp —
POWRSLIDE IS A COMPLETE CLAMPING SYSTEM

In application, a PowRslide system consists of one or more PowRslide heads, flexible hose or steel tubing, a Wilton Air/Hydraulic Booster, and air controlled valve connected to your shop air supply. The power source (Booster and shop air) is exceptionally low cost — and the most dependable.

The Wilton Booster Reservoir (it replenishes oil automatically!) assures a continuous source of powerful holding pressure. High oil capacity of the Booster plus 3000 psi pressure permits you to operate a number of PowRslide units at the same time.

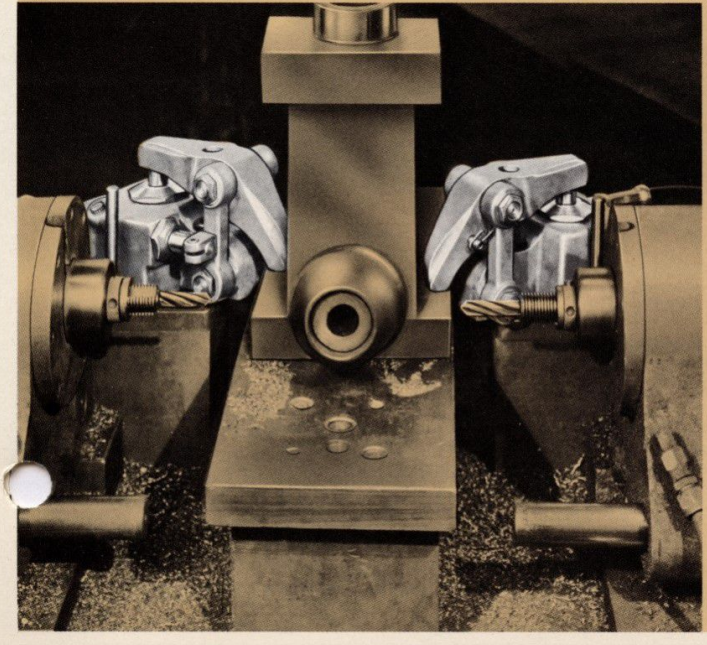
how it works —

PowRslide's single bolt mounting makes setups a simple matter. Variations in size and shape of the workpieces are easily adjusted by mounting PowRslide on one or more interlocking riser blocks.

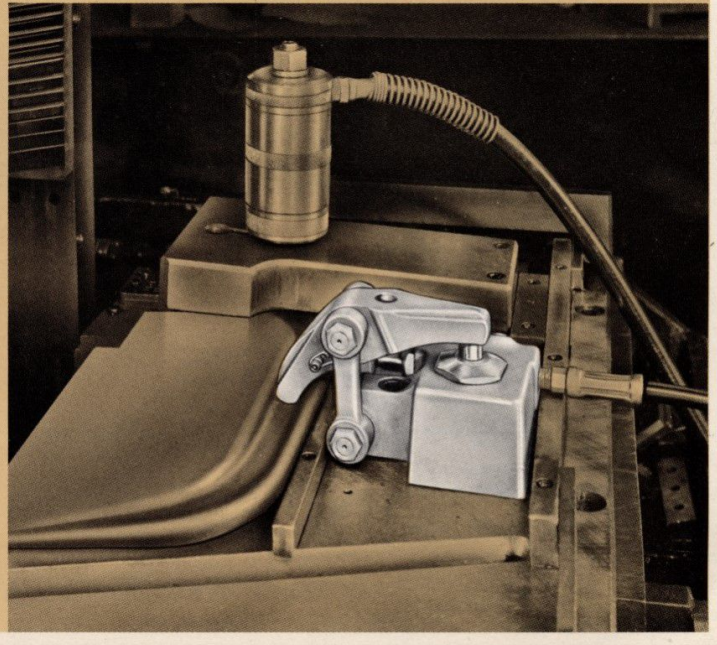
The PowRslide rocker arm has a 5/16″ stroke. The complete unit incorporating a vertical and horizontal hydraulic piston is precision-machined of ductile alloy — built to take the tremendous pressure build-up of the clamping stroke.

A touch of an air control activates one or more PowRslide units. In an instant, the *horizontal hydraulic piston* pushes the rocker arm forward, and then the *vertical hydraulic piston* drives the rocker arm down to clamp the workpiece with up to 8700 lbs. of locking force at 100 psi air pressure. When the machining operation is complete, another touch of the air control automatically returns the rocker arm to the relaxed position, clearing the workpiece for easy removal.

Clamping automation! A touch on a single air valve controls both PowRslide units in this drilling operation. Clamping action is *fast*, simultaneous—matched to the operating cycle of the machine. Hydraulic power is supplied by a combination of shop air and Wilton Air/Hydraulic Booster.

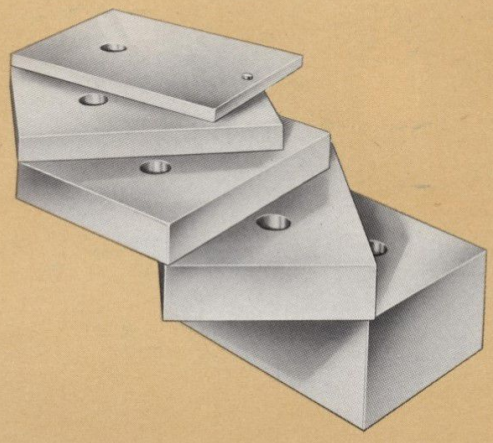


This broaching operation illustrates a big advantage of PowRslide: high clearance of the rocker arm which permits the workpiece to be easily slid into position. Even workpieces with unusual conformations can be accommodated. Note the Wilton PowRlock hydraulic cylinder used to back up PowRslide. Both are operated with shop air and a Wilton Air/Hydraulic Booster through a *single* air control valve.

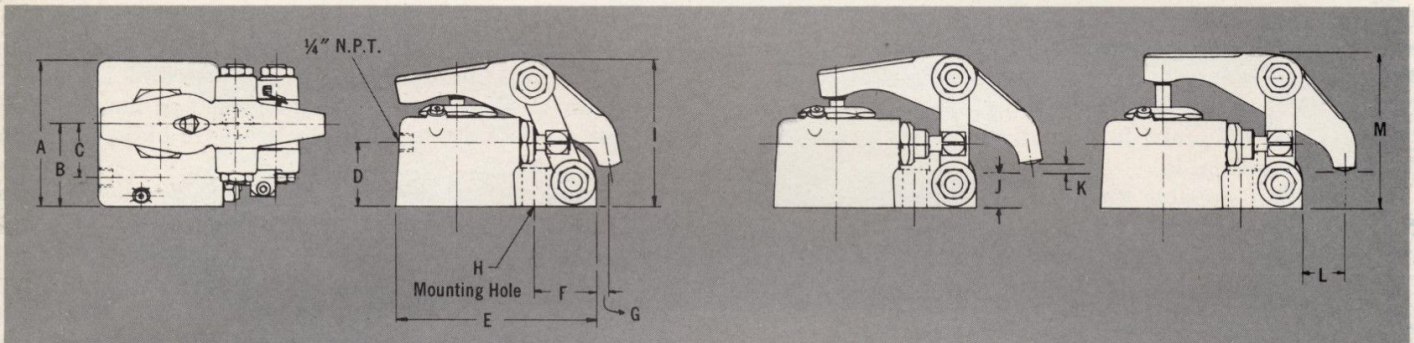


RISER BLOCKS

Here are five good reasons why you can clamp just about any size workpiece, any shape or configuration with PowRslide. These riser blocks are used when the clamping height on the workpiece exceeds 1 1/8". Used singly or in combination, they permit you to adapt the 5/16" stroke of the PowRslide unit to match workpiece contact points. Each block has a 5/8" mounting hole, each interlocks to provide a solid clamping base.



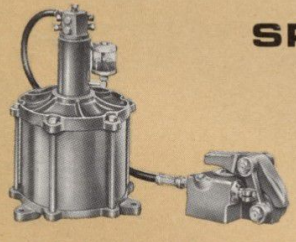
Cat. No.	Thickness	Over-all Length	Over-all Width	Ship. Wt. Lbs.	Net Resale Price
3711	1/4"	5 3/16"	3 3/4"	2	$4.10
3712	1/2"	5 3/16"	3 3/4"	3	$4.65
3713	3/4"	5 3/16"	3 3/4"	5	$5.60
3714	1"	5 3/16"	3 3/4"	6	$6.50
3715	2"	5 3/16"	3 3/4"	12	$8.40



	A	B	C	D	E	F	G	H	I	J	K	L	M
No. 3700 PowRslide	3 3/4"	2 1/4"	1 7/16"	1 11/16"	5 3/16"	1 9/16"	3/16"	21/32" Dia.	3 3/4"	13/16"	5/16"	1 1/16"	4"

SPECIFICATIONS—POWRSLIDE CLAMP

Cat. No.	Over-all Height	Diameter of Mounting Bolt Hole	Horizontal Stroke	Maximum Vertical Stroke	Oil Volume For Max. Stroke	Thrust of Locking Arm at 1000 psi Oil Pressure	Workpiece Elevation Above PowRslide Base Line at Clamping Point	Ship Wt. Lbs.	Net Resale Price
3700	4"	21/32"	7/8"	5/16"	1.64 cu. in.	2,700 lbs.	13/16" to 1 1/8"	13 lbs.	$96.50



SPECIFICATIONS—POWRSLIDE ASSEMBLIES

Catalog Number, Complete Assembly	Number of PowRslide Clamps Furnished	Model Booster Furnished	Thrust of Locking Arm at 100 psi Air Input Pressure	Maximum Available Vertical Clamping Stroke of Locking Arm	Approximate Shipping Weight, Lbs.	Net Resale Price
3731	1	4745	4,300 lbs.	5/16"	38	$193.00
3732	2	4745	4,300 lbs.	1/4"	52	$289.50
3751	1	4760	7,800 lbs.	5/16"	43	$215.50
3752	2	4760	7,800 lbs.	1/4"	58	$312.00
3784	4	4785	8,700 lbs.	5/16"	106	$574.20

POWRSLIDE Assemblies include PowRslide Heads indicated in the table, with Booster, and 5-foot connecting Hydraulic Hoses.

Required Accessories: No. 2946 Rapid Return Valve, 1/2 lb. $9.40; No. 2941 Air Control, hand type, 1 lb. $9.80; No. 2947 Safety Check Valve, 1/4 lb. $4.20; No. 2952 Two sections, 5-foot air hose, 2 lbs. $2.65 each.

Distributed by

WILTON

WILTON TOOL MANUFACTURING CO. INC.
Schiller Park, Illinois
Chicago Phones: 625-7770
Long Distance: (Area Code 312) 678-6600
Teletype: 312-678-2182

No. 790 Printed in U.S.A.